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Relevance

1 [Survey of closed queueing networks with blocking](#)



Raif O. Onvural

June 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(3.72 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [re](#)

Closed queueing networks are frequently used to model complex service systems such as production s communication systems, computer systems, and flexible manufacturing systems. When limitations are the queue sizes (i.e., finite queues), a phenomenon called *blocking* occurs. Queueing networks with blo in general, difficult to treat. Exact closed form solutions have been reported only in a few special cases most of the techniques that are used to analy ...

2 [Join operations in temporal databases](#)

Dengfeng Gao, S. Jensen, T. Snodgrass, D. Soo

March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Iss

**Publisher:** Springer-Verlag New York, Inc.

Full text available: [pdf\(374.28 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Joins are arguably the most important relational operators. Poor implementations are tantamount to co the Cartesian product of the input relations. In a temporal database, the problem is more acute for two First, conventional techniques are designed for the evaluation of joins with equality predicates rather th inequality predicates prevalent in valid-time queries. Second, the presence of temporally varying data i increases the size of a database. These factors i ...

**Keywords:** Attribute skew, Interval join, Partition join, Sort-merge join, Temporal Cartesian product, join, Timestamp skew

3 [Special issue: Game-playing programs: theory and practice](#)



M. A. Bramer

April 1982 **ACM SIGART Bulletin**, Issue 80


**Publisher:** ACM Press

Full text available: [pdf\(9.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

This collection of articles has been brought together to provide SIGART members with an overview of A Intelligence approaches to constructing game-playing programs. Papers on both theory and practice ar

4 [DLFM: a transactional resource manager](#)

 Hui-I Hsiao, Inderpal Narang  
May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(124.99 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The DataLinks technology developed at IBM Almaden Research Center and now available in DB2 UDB 5 introduces a new data type called DATALINK for a database to reference and manage files stored external to the database. An external file is put under a database control by "linking" the file to the database. Control can also be removed by "unlinking" it. The technology provides transactional semantics with respect to link unlinking the file when DATALINK ...

## 5 Query evaluation techniques for large databases

 Goetz Graefe  
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

**Publisher:** ACM Press


Full text available:  [pdf\(9.37 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [re](#)


Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, complex data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as possible, database systems manipulate simple records, query-processing ...

**Keywords:** complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

## 6 System R: relational approach to database management

 M. M. Astrahan, M. W. Blasgen, D. D. Chamberlin, K. P. Eswaran, J. N. Gray, P. P. Griffiths, W. F. King, R. R. McJones, J. W. Mehl, G. R. Putzolu, I. L. Traiger, B. W. Wade, V. Watson  
June 1976 **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 2

**Publisher:** ACM Press


Full text available:  [pdf\(3.18 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


System R is a database management system which provides a high level relational data interface. The system provides a high level of data independence by isolating the end user as much as possible from underlying data structures. The system permits definition of a variety of relational views on common underlying data. C features are provided, including authorization, integrity assertions, triggered transactions, a logging and recovery subsystem, and facilities for maintaining ...

**Keywords:** authorization, data structures, database, index structures, locking, nonprocedural languages, relational model

## 7 A Survey of Techniques for Synchronization and Recovery in Decentralized Computer Systems

 Walter H. Kohler  
June 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(3.33 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 8 Gigabyte volume viewing using split software/hardware interpolation

 William R. Volz  
October 2000 **Proceedings of the 2000 IEEE symposium on Volume visualization**

**Publisher:** ACM Press

Full text available:  [pdf\(917.24 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** large datasets, texturing, trilinear interpolation

9 Route oscillations in I-BGP with route reflection



Anindya Basu, Chih-Hao Luke Ong, April Rasala, F. Bruce Shepherd, Gordon Wilfong

August 2002 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '02**, Volume 32 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(315.21 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We study the route oscillation problem [16, 19] in the Internal Border Gateway Protocol (I-BGP)[18] where route reflection is used. We propose a formal model of I-BGP and use it to show that even deciding whether a configuration with route reflection can converge is an NP-Complete problem. We then propose a modified BGP and show that route reflection cannot cause the modified protocol to diverge. Moreover, we show that the modified protocol converges to the same stable routing configuration ...

**Keywords:** I-BGP, route oscillations, route reflection, stability

10 Service infrastructure and network management: MobiDesk: mobile virtual desktop computing



Ricardo A. Baratto, Shaya Potter, Gong Su, Jason Nieh

September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

**Publisher:** ACM Press

Full text available:  [pdf\(580.39 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present MobiDesk, a mobile virtual desktop computing hosting infrastructure that leverages continuous improvements in network speed, cost, and ubiquity to address the complexity, cost, and mobility limitations of today's personal computing infrastructure. MobiDesk transparently virtualizes a user's computing session by abstracting underlying system resources in three key areas: display, operating system, and network. It introduces a thin virtualization layer that decouples a user's computing session from the underlying infrastructure ...

**Keywords:** computer utility, network mobility, on-demand computing, process migration, thin-client computing, virtualization

11 Performance of cache coherence in stackable filing



J. Heidemann, G. Popek

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5

**Publisher:** ACM Press

Full text available:  [pdf\(2.00 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

12 Mobile applications: Feedback linking: optimizing object code layout for updates



Carl von Platen, Johan Eker

June 2006 **Proceedings of the 2006 ACM SIGPLAN/SIGBED conference on Language, compilers and tools for embedded systems LCTES '06**

**Publisher:** ACM Press

Full text available:  [pdf\(421.85 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Firmware over the air (FOTA) is becoming a standard procedure for maintaining and updating wireless systems. To cope with bandwidth and storage constraints this is facilitated using incremental updates based on delta technology, i.e. only the modifications are transmitted. The performance of a FOTA update is high

dependent on the size of the delta, and the type of modifications. Application of a delta update involves the present version, byte by byte, into the new version. Th ...

**Keywords:** flash memory, incremental software update

13 Mobile services: Reincarnating PCs with portable SoulPads

 Ramón Cáceres, Casey Carter, Chandra Narayanaswami, Mandayam Raghunath  
June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and MobiSys '05**

**Publisher:** ACM Press

Full text available:  [pdf\(199.97 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

The ability to walk up to any computer, personalize it, and use it as one's own has long been a goal of computing research. We present *SoulPad*, a new approach based on carrying an auto-configuring operating system along with a suspended virtual machine on a small portable device. With this approach, the computer boots from the device and resumes the virtual machine, thus giving the user access to his personal environment including previously running computations. *SoulPad* has ...

14 Improving the browsing experience: WebPod: persistent Web browsing sessions with pocketable devices

 Shaya Potter, Jason Nieh  
May 2005 **Proceedings of the 14th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  [pdf\(166.59 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present WebPod, a portable system that enables mobile users to use the same persistent, personal browsing session on any Internet-enabled device. No matter what computer is being used, WebPod provides a consistent browsing session, maintaining all of a user's plugins, bookmarks, browser web content, open windows, and browser configuration options and preferences. This is achieved by leveraging rapid improvement in capacity, cost, and size of portable storage devices. WebPod provides ...

**Keywords:** checkpoint/restart, portable storage, process migration, virtualization, web browsing

15 Input/Output: Energy conservation techniques for disk array-based servers

 Eduardo Pinheiro, Ricardo Bianchini  
June 2004 **Proceedings of the 18th annual international conference on Supercomputing**

**Publisher:** ACM Press


Full text available:  [pdf\(174.29 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we study energy conservation techniques for disk array-based network servers. First, we present a new conservation technique, called Popular Data Concentration (PDC), that migrates frequently accessed data to a subset of the disks. The goal is to skew the load towards a few of the disks, so that others can be transitioned to low-power modes. Next, we introduce a user-level file server that takes advantage of PDC. In the context of the server, we compare PDC to the Massive Array ...

**Keywords:** disk power, energy conservation, network servers

16 Design tradeoffs for the Alpha EV8 conditional branch predictor

 André Seznec, Stephen Felix, Venkata Krishnan, Yiannakis Sazeides  
May 2002 **ACM SIGARCH Computer Architecture News , Proceedings of the 29th annual international symposium on Computer architecture ISCA '02 , Proceedings of the 29th annual international symposium on Computer architecture ISCA '02**, Volume 30 Issue 2

**Publisher:** IEEE Computer Society, ACM Press

Full text available:  [pdf\(1.24 MB\)](#)  [Publisher](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Site


This paper presents the Alpha EV8 conditional branch predictor The Alpha EV8 microprocessor project, June 2001 in a late phase of development, envisioned an aggressive 8-wide issue out-of-order superscalar microarchitecture featuring a very deep pipeline and simultaneous multithreading. Performance of such processor is highly dependent on the accuracy of its branch predictor and consequently a very large silicon was devoted to branch prediction on EV8. The Alpha EV8 branch predictor pre ...

**Keywords:** EV8 processor, Branch Prediction

17 Research sessions: implementation techniques: Skew handling techniques in sort-merge join

 Wei Li, Dengfeng Gao, Richard Thomas Snodgrass  
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

**Publisher:** ACM Press

Full text available:  pdf(1.18 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Joins are among the most frequently executed operations. Several fast join algorithms have been developed and extensively studied; these can be categorized as sort-merge, hash-based, and index-based algorithms. In this paper, three types of algorithms exhibit excellent performance over most data, ameliorating the performance degradation in the presence of skew has been investigated only for hash-based algorithms. However, for sort-merge joins, a small amount of skew present in realistic data can ...

18 Consistency management in Deno

Peter J. Keleher, Ugur Cetintemel  
December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(151.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a new replicated object protocol designed for use in mobile and weakly connected environments. The protocol differs from previous protocols in combining epidemic information propagation, voting, and in using fixed per object currencies for voting. The advantage of epidemic protocols is that movement only requires pairwise communication. Hence, there is no need for a majority quorum available and simultaneously connected at any single time. This ...

19 Going native: An efficient and generic reversible debugger using the virtual machine based approach

 Toshihiko Koju, Shingo Takada, Norihisa Doi  
June 2005 **Proceedings of the 1st ACM/USENIX international conference on Virtual execution environments**

**Publisher:** ACM Press

Full text available:  pdf(172.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The reverse execution of programs is a function where programs are executed backward in time. A reversible debugger is a debugger that provides such a functionality. In this paper, we propose a novel reversible debugger that enables reverse execution of programs written in the C language. Our approach takes the *virtual machine based approach*. In this approach, the target program is executed on a special virtual machine. Our contribution of this paper is two-fold. First, we propose an approach ...

**Keywords:** debugger, reverse execution, virtual machine

20 Effective ahead pipelining of instruction block address generation

 André Seznec, Antony Fraboulet  
May 2003 **ACM SIGARCH Computer Architecture News , Proceedings of the 30th annual international symposium on Computer architecture ISCA '03**, Volume 31 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(201.86 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

On a N-way issue superscalar processor, the front end instruction fetch engine must deliver instruction: execution core at a sustained rate higher than N instructions per cycle. This means that the instruction generator/predictor (IAG) has to predict the instruction flow at an even higher rate while the prediction can not be sacrificed. Achieving high accuracy on this prediction becomes more and more critical since the pipeline is becoming deeper and deeper with ea ...

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